

Why are digital skills critical for older persons?

New e-Ageing society

Prof. Dr Toshiro OBI

Waseda University Japan

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Prof. Dr Toshiro Obi

@ Director and Professor
Institute of e-Government
at **Waseda University Japan**



- Special Envoy of **ITU** Secretary General for Academia, Geneva
- Chair National e-Government Promotion Council of Japan
- Member MIC Minister's ICT Growth Strategy Council
- Co-Chair Japan-**China** Forum on e-Ageing
- **Chair APEC** on ICT Applications for the People with special needs-Ageing and Disability
- **ex-Director OECD** project on e-Ageing
- Authors: [ICT and Ageing Society] [Smart Innovation] IOS Press
- **Speakers at UNIDOP DSPD and CSocD54**

Japan as NO.1 SuperAgeing Society

Issue 1 Economic impact: 1. unemployed Seniors 80% of retired persons seek jobs but 20 % can get

- 2. Economic disparity = Rich vs Poor elderly become bigger gap

Issue 2 Social impact

- Pension system and medical /healthcare need reform
- New big public projects for Ageing **infrastructure** in urban communities—**old** road /hospital/ school/building
- Demographic change —**40%** of population will be age 65 + in 2050
- Long Happy life— **Men 83 and Women 89** years old

Issue3 The Seniors are [Asset] (65 % of national financial assets belong to them) , not Burden . Expenditures exceed \$ 1 trillion including Paying taxes as big spender/consumers in Japan

Transformation of Digital Economy by Smart Silver Community

The first in history to converge [Ageing]and[ICT] Societies



IoT utilization for an Aging Society

3 Criteria of SILVER ICT –IoT Innovation

World Silver industry will grow at \$27 Trillion by 2050

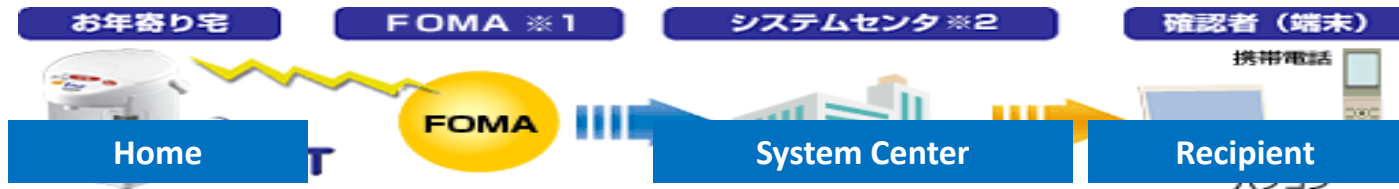
Plenty of activities for silver society



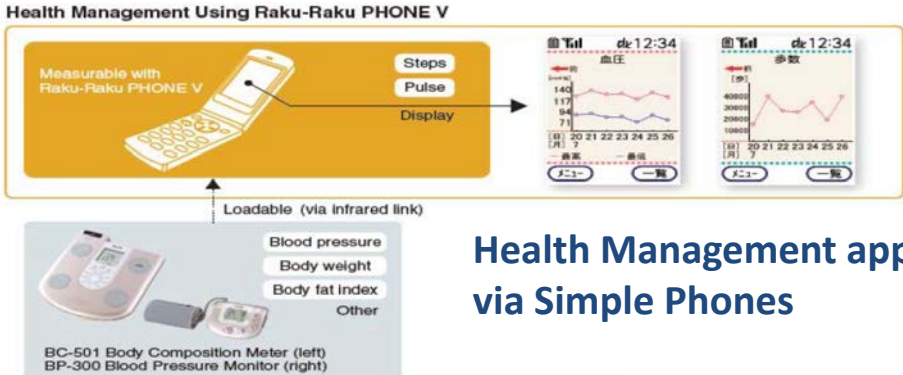
Smart home
(supportive housing)
Sensors by bed
occupancy and nightlight
Home safety alerts and
GPS
OASIS (open architecture
for sensor)
Remote for single living
sensors
Environmental controls
Cooker safety
Home treatment

Telehealth (e-health)
Health information
management
Telecare
Just checking
Robot care (Robot)
Service innovation in
hospital
Dreaming (nursing
home)
E-carte
Client monitoring
system

E-inclusion
Ambient assisted living
Online shopping
Net reservations with touch panel
E-banking & e-payment
ICT ethics for ageing
TV-seniority and programs for the
elderly
Social alarms
Social communication technologies
Senior net talking
Easy call, easy mobile and easy PC



ICT for Older persons



Health Management apps via Simple Phones



Senior Communication's social networking

Smart Silver Innovation
 Assisted Robots/ Communication Robots
 Destructive technologies



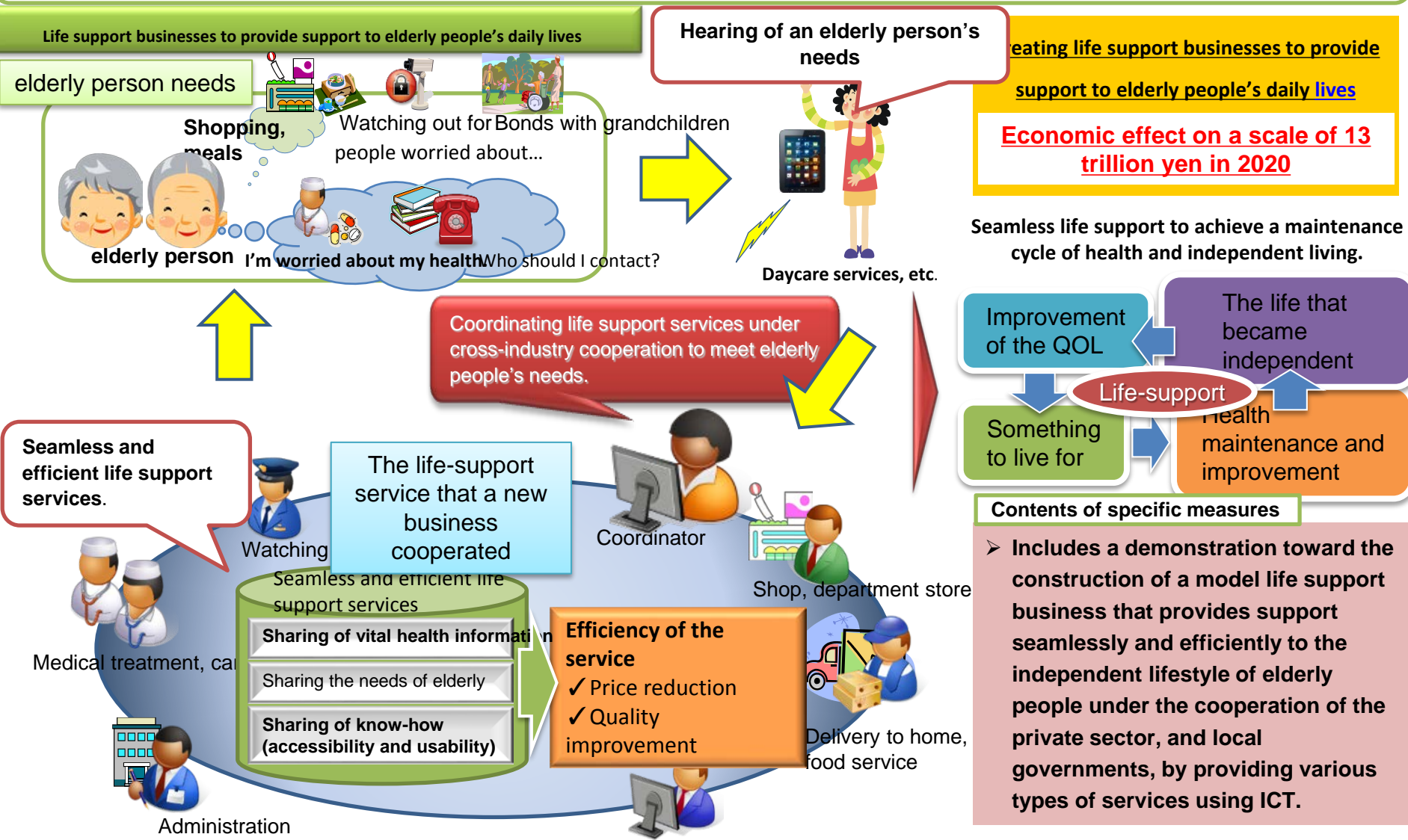
aizo

Robot Suit Hybrid Assistive Limb®



Big Data; AI and Creation of Life Support Businesses for Smart Silver City

■ Constructing sustainable models based on the requirements of users, such as elderly people, to provide circulation in local economies to help resolve problems in each super-aged society. Such models will include a life support business, which will organically link the government, enterprises, local residents, and other participants, to daily life services (e.g., shopping assistance, meal delivery, care watch, and transportation services) and community-related businesses.



United Nations Conferences on Ageing Society at UN, New York Oct.15 2015 and Feb.8 2016

2 Speeches by Prof.Obi Japan [Creating Smart Silver Innovation]



Japan-China- Korea Trilateral Forum on Ageing Issues Beijing 2012

Japan-China Forum every year since then

**Japan as the highest Ageing % (30%) VS China as the
biggest Ageing population (140 Million) 2017**



APECTEL Workshop on e-Ageing in Singapore in 2014 Tokyo in 2015 and Moscow in 2017 chaired by Prof. Obi



The Japan-EU Policy Forum on Silver ICT at EC, Brussels in 2013/at Tokyo in 2015



Participants

Japan: 20 experts by gov, business, & academia

Chaired by Prof.Obi EU: 25 experts

Topics: EU Horizon 2020 and collaboration
between Japan EU on Silver ICT/healthy ageing

New Trends and Global Issues

- Increasing “UrbanAgeing”
- Increasing “LivingAlone” at Home
 - 1/3 female will be older women in Japan
- Increasing Bigger Income Gap/Inequality >Poverty eradication
- Increasing NEW Digital Divide = AI+IoT+BD+Cloud
- Increasing Nursing at Home (Family care > Hospital)
due to shortage of both government budget and Caregivers/nursing in hospital
 - need family education/training and inclusion on healthcare

Popular Applications for Silver Technology Innovation

IoT = Bigdata = AI for “Smart Silver Society”

- **Assistive Robots (expensive?)**
- **Self Health check by digital device**
- **BCP (Business Continuity Plan) for Disaster Reduction**
- **Smart Digital Home for Quality of Life**
- **Online Shopping at Home**
- **VR (Virtual Reality) for leisure**
- **Auto Driving=Smart Mobility (2025)**
- **Security and Monitoring System for Safe/Secure Life**
- **5G mobile and 8K TV (2020)**

4 Questions & Recommendations

1. Life-Long Learning to acquire digital skills
 - Active role of university / vocational school for LLL / e-Learning on digital skills
2. Innovative technology for older persons
 - AI must increase jobs for the ageing (AI will kill a half of all human jobs in 2040)
3. Usage of the above for poverty eradication
 - New job style: Telework / Silver Venture / silver SME / Online service / Cross-border workplace (anytime, anywhere for ageing people)
4. User-friendly technological adaptation
 - Creating UN Voluntary Fund for promoting Silver digital employment & global action & research on e-ageing by IT companies

Thank you !!

Prof. Dr Tshio OBI
Waseda University Japan

